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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/717,414	11/18/2003	Thomas W. Stone	10010940-1	7247
57299	7590	05/18/2006	[REDACTED]	EXAMINER
AVAGO TECHNOLOGIES, LTD. P.O. BOX 1920 DENVER, CO 80201-1920			[REDACTED]	LU, TONY W
			[REDACTED]	ART UNIT
			[REDACTED]	PAPER NUMBER
				2878

DATE MAILED: 05/18/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

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Office Action Summary	Application No.	Applicant(s)	
	10/717,414	STONE, THOMAS W.	
	Examiner	Art Unit	
	Tony Lu	2878	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on 03 March 2006.
- 2a) This action is **FINAL**. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1-6 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) Claim(s) _____ is/are allowed.
- 6) Claim(s) 1-6 is/are rejected.
- 7) Claim(s) _____ is/are objected to.
- 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on 03 March 2006 is/are: a) accepted or b) objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) All b) Some * c) None of:
1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) Notice of References Cited (PTO-892)
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
 Paper No(s)/Mail Date _____.
- 4) Interview Summary (PTO-413)
 Paper No(s)/Mail Date. _____.
- 5) Notice of Informal Patent Application (PTO-152)
- 6) Other: _____.

DETAILED ACTION

This is in response to the amendment filed on 03/03/2006.

Drawings

The drawings were received on 03/03/2006. These drawings are objected to because they have hand written markings on sheets.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-6 are rejected under 35 U.S.C. 102(b) as being anticipated by Stone et al US4786124.

With respect to claim 1, Stone et al disclose an optical system and its method, the method comprising the steps of:

- a) selectively directing an electromagnetic radiation beam(input white light) to a predetermined optical path(toward base grating 10); and
- b) subsequently selectively directing the electromagnetic radiation beam to another predetermined optical path(see the changing of light path in fig.1);
- c) generating an angular separation of spectral components(at least red and blue, see fig.1, also read col.15, lines 37-51) of the electromagnetic radiation beam by the steps of a) and b) in order to introduce the selectable amounts of temporal dispersion(read col.2, lines 20-55).

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With respect to claim 2, per the above discussion, Stone et al disclose a step of
d) repeating step b) until a direction of propagation of the electromagnetic radiation
beam is substantially parallel to an input direction(note that input of white light is parallel
to the output of the white light, see fig.1).

With respect to claim 3, per the above discussion, Stone et al disclose a step of
d) redirecting the selectively directed electromagnetic radiation beam to a
predetermined direction(see the wavelength of red and blue changing path after passing
through base grating 10 or 12).

With respect to claim 4, per the above discussion, Stone et al disclose selectively
diffracting an output electromagnetic radiation beam(from 14 to 12) originating from a
switching/routing optical system(fig.1 is an optical system); rendering, after selective
diffraction(by base grating 12), a direction of propagation of the electromagnetic
radiation output beam parallel to an input direction(see fig.1, the input of the white light
parallels to the output of the white light).

With respect to claim 5, per the above discussion, Stone et al disclose a step of
propagating an input electromagnetic radiation beam(input white light) through a
steering diffracting element(10, base grating) before entering the switching/routing
optical system.

With respect to claim 6, per the above discussion, Stone et al disclose a step of:
selectively diffracting at least one crosstalk induced output electromagnetic radiation
beam(note that the beams, red and/or blue, passing through 14 are again diffracted by
the grating 12, see fig.1).

Response to Arguments

Applicant's arguments with respect to claims 1-6 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tony Lu whose telephone number is 5712728448. The examiner can normally be reached on M-F 9:00am- 6:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Georgia Epps can be reached on 5712722328. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Georgia Epps
Supervisory Patent Examiner
Technology Center 2800